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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/643,203	08/22/2000	Mohammad T. Fatehi	Fatehi 37-21-20	8394

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EXAMINER

KADING, JOSHUA A

ART UNIT	PAPER NUMBER
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2661

DATE MAILED: 06/25/2004

*[Handwritten mark]*

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/643,203

Applicant(s)

FATEHI ET AL

Examiner

Joshua Kading

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 05 April 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-6 and 9-19 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-6 and 9-19 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 21 August 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

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**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

5           A person shall be entitled to a patent unless –

10           (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

15           Claims 14, 17, 18, and 19 are rejected under 35 U.S.C. 102(e) as being anticipated by Stacey et al. (U.S. Patent 6,434,154 B1).

20           In regard to claim 14, Stacey discloses “a method of transporting information in an optical communication network having interconnected network nodes and one or more user nodes coupled to network nodes” (col. 4, lines 18-26), “the method comprising:

25           forming a digital container at a first network node, the digital container including a header section and a payload section, wherein the payload section is capable of carrying a plurality of separate transmissions formatted according to one or more protocols” (figure 4 where a description of figure 4 is found in col. 5, lines 64-col. 6, lines 1-4; figure 5 shows the forming of the multiplexed digital container of figure 4 at the beginning node); “and

addressing the digital container for routing to a second network node such that routing of the digital container through the communication network is based only on destination information contained within the header section of the digital container, wherein the payload section of the digital container includes transmissions for only the one or more user nodes serviced by the second network node" (figure 5 where the flow has been transmitted from one end (a first node) to the other end (a second node) and where a description of figure 5 can be read in col. 6, lines 41-50 where the switching at the adaptation layer means that the digital container has been addressed to the end node (the second node) only through the header and not through each individual minicell or transmission).

In regard to claim 17, Stacey discloses "a method of transporting information in an optical communication network having interconnected network nodes and one or more user nodes coupled to network nodes" (col. 4, lines 18-26), "the method comprising:

in a first network node (figure 5, where element 52 can act as a first or last node of the network in figure 5),

a processor for forming a digital container including a header section and a payload section, wherein the payload section is capable of carrying a plurality of separate transmissions formatted according to one or more protocols" (figure 4 where a description of figure 4 is found in col. 5, lines 64-col. 6, lines 1-4; figure 5 shows the forming of the multiplexed digital container of figure 4 at the beginning node; it should

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be noted that the processor is inherent in the network node because to form and transmit the digital piece of information, a processor must execute these processes),

"and

a routing element for routing the digital container to a second network node

5 based only on destination information contained within the header section of the digital container (figure 5, element 51 is a switch which, as seen from figure 5, uses the AAL-2 header as routing information for the data that is sent to the node); and

in a second network node, a processor for receiving and processing the digital container and routing the separate transmissions carried in the payload section of the  
10 digital container to one or more user nodes serviced by the second network node, wherein the payload section of the digital container includes transmissions for only the one or more user nodes serviced by the second network node" (figure 4, shows the payload section of the ATM cell that includes transmissions (ATM mini cells) from one or more user nodes; figure 5, where the last element in the network path, similar to that  
15 of element 52, is the end node in the network that receives the single multiplexed data that has arrived from the ATM network and demultiplexes it into its respective mini cells, thus ready for transmission to the one or more user destinations; it should be noted that although a processor is not mentioned or shown, it is inherent that a node that processes data (such as the process of demultiplexing) must have a processor of sorts  
20 as a processor is the only way to change electrical data from one form to another).

In regard to claim 18, Stacey discloses "in an optical communication network having a plurality of network nodes and one or more user nodes coupled to one or more of the plurality of network nodes (col. 4, lines 18-26), a first network node for transporting information in the communication network comprising:

5           a processor operable to form a digital container including a header section and a payload section, wherein the payload section is capable of carrying a plurality of separate transmissions formatted according to one or more protocols and further operable to address the digital container for routing to a second network node" (figure 4, shows the payload section of the ATM cell that includes transmissions (ATM mini cells) 10 from one or more user nodes; figure 5, where the last element in the network path, similar to that of element 52, is the end node in the network that receives the single multiplexed data that has arrived from the ATM network and demultiplexes it into its respective mini cells, thus ready for transmission to the one or more user destinations; it should be noted that although a processor is not mentioned or shown, it is inherent that 15 a node that processes data (such as the process of demultiplexing) must have a processor of sorts as a processor is the only way to change electrical data from one form to another);

          "and a routing element for routing the digital container to a second network node based only on destination information contained within the header section of the digital 20 container, wherein the payload section of the digital container includes information for only the one or more user nodes serviced by the second network node" (figure 5,

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element 51 is a switch which, as seen from figure 5, uses the AAL-2 header as routing information for the data that is sent to the node).

In regard to claim 19, Stacey discloses "in an optical communication network

5 having a plurality of network nodes and one or more user nodes coupled to one or more of the plurality of network nodes (col. 4, lines 18-26), a destination network node for transporting information in the communication network comprising:

means for receiving a digital container transmitted by a first network node using only destination information corresponding to the digital container, the digital container  
10 including a header section and a payload section (figure 5, element 51 which has received the ATM cell information from node 52 and where the ATM cell is structured as that of the ATM cell in figure 4, having a header and payload), wherein the payload section is capable of carrying a plurality of separate transmissions formatted according to one or more protocols" (figure 4, shows the payload section of the ATM cell that  
15 includes transmissions (ATM mini cells) from one or more user nodes);

"and means for processing the digital container and for routing the separate transmissions carried in the payload section of the digital container to one or more user nodes serviced by the second network node (figure 5, where the last element in the network path, similar to that of element 52, is the end node in the network that receives  
20 the single multiplexed data that has arrived from the ATM network and demultiplexes it into its respective mini cells, thus ready for transmission to the separate destinations), wherein the payload section of the digital container includes transmissions for only the

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forming a digital container at a first network node, the digital container including a header section and a payload section, wherein the payload section is capable of carrying a plurality of separate transmissions formatted according to one or more protocols" (figure 4 where a description of figure 4 is found in col. 5, lines 64-col. 6, lines 1-4; figure 5 shows the forming of the multiplexed digital container of figure 4 at the beginning node);

20           “routing the digital container through the communication network based only on  
destination information contained within the header section of the digital container



(figure 5, element 51 is a switch which, as seen from figure 5, uses the AAL-2 header as routing information for the data that is sent to the node);

routing the separate transmissions carried in the payload section of the digital container to one or more user nodes serviced by the second network node (figure 5, where the last element in the network path, similar to that of element 52, is the end node in the network that receives the single multiplexed data that has arrived from the ATM network and demultiplexes it into its respective mini cells, thus ready for transmission to the separate destinations), wherein the payload section of the digital container includes transmissions for only the one or more user nodes serviced by the second network node" (figure 4, shows the payload section of the ATM cell that includes transmissions (ATM mini cells) from one or more user nodes).

However, Stacey lacks what Easki discloses, that is "receiving and processing the digital container at a second network node" (col. 2, lines 26-35 where the term "nodes" says there is more than one and therefore the digital container must be received and processed by a second network node).

It would have been obvious to one with ordinary skill in the art at the time of invention to include the receiving and processing the digital container at a second network node for the purpose of routing the digital container onto the final node in the destination. The motivation is that by routing the digital container to the second node the larger amount of multiplexed data than each individual transmission has been transmitted effectively and efficiently across the network (Stacey, col. 3, lines 58-61).

In regard to claim 2, Stacey and Easki disclose the method of claim 1. However, Easki lacks what Stacey further discloses, that is "the step of processing the separate transmissions according to the one or more protocols at the one or more user nodes" (figure 5 where the flow has been transmitted from one end (the first node) to the other  
5 end (the second node) and where a description of figure 5 can be read in col. 6, lines 41-50 where at the first node, a plurality of users or transmissions are multiplexed into the flow and thus at the end or second node they will be demultiplexed and routed to their appropriate destinations). It would have been obvious to one with ordinary skill in the art at the time of invention to include the additional step of processing with the  
10 method of claim 1 for the same reasons and motivation as in claim 1.

In regard to claim 3, Stacey and Easki disclose the method of claim 1. However, Easki lacks what Stacey further discloses, that is "the payload section of the digital container comprises a heterogeneous payload having a plurality of units of traffic  
15 selected from the group consisting of an ATM cell..." (col. 4, lines 24-26). It would have been obvious to one with ordinary skill in the art at the time of invention to include the plurality of units subscribing to the ATM protocol with the method of claim 1 for the same reasons and motivation as in claim 1.

20 In regard to claim 4, Stacey and Easki disclose the method of claim 1. However, Stacey lacks what Easki further discloses, that is "the digital container is formed as a signaling-type container for establishing a communications connection between network

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nodes" (col. 3, lines 3-13 where it is reasonable to assume that the signaling channel of Easki will employ the same digital container creation for signaling messages as is done in Stacey and use these signals to perform connection-setting procedures, i.e. setup connections between nodes). It would have been obvious to one with ordinary skill in the art at the time of invention to include the signal-type container with the method of claim 1 for the same reasons and motivation as in claim 1.

In regard to claim 5, Stacey and Easki disclose the method of claim 1. However, Stacey lacks what Easki further discloses, that is "the digital container is formed as a signaling-type container for establishing a communications connection between user nodes" (col. 3, lines 3-13 where it is reasonable to assume that the signaling channel of Easki will employ the same digital container creation for signaling messages as is done in Stacey and use these signals to perform connection-setting procedures, i.e. setup connections between nodes). It would have been obvious to one with ordinary skill in the art at the time of invention to include the signal-type container with the method of claim 1 for the same reasons and motivation as in claim 1.

In regard to claim 6, Stacey and Easki disclose the method of claim 1. However, Stacey lacks what Easki further discloses, that is "the step of forming comprises forming a digital container of a fixed size" (col. 1, lines 51-55). It would have been obvious to one with ordinary skill in the art at the time of invention to include the digital container of fixed size with the method of claim 1 for the same reasons and motivation as in claim 1.

In regard to claim 10, Stacey and Easki disclose the method of claim 1. However, Stacey lacks what Easki further discloses, that is "the header section further includes a payload control field for indicating whether contents of the payload section of the digital container are dedicated to a single user node" (col. 39, lines 19-25 and 43-55 where the VPI field describes a destination address, which can further identify a single SAP, and although an SAP is not explicitly described as a user, it can be treated as an "end point" in communication). It would have been obvious to one with ordinary skill in the art at the time of invention to include the payload control field with the method of claim 1 for the same reasons and motivation as in claim 1.

In regard to claim 11, Stacey and Easki disclose the method of claim 1. However, Stacey lacks what Easki further discloses, that is "the header section further includes a payload control field for indicating whether contents of the payload section of the digital container are intended for two or more user nodes serviced by the same network node" (col. 39, lines 19-25 and 43-55 where the VPI field describes a destination address, which can further identify a multicast or broadcast (two or more users)). It would have been obvious to one with ordinary skill in the art at the time of invention to include the payload control field with the method of claim 1 for the same reasons and motivation as in claim 1.

In regard to claim 15, Stacey discloses "a method of transporting information in an optical communication network having interconnected network nodes and one or more user nodes coupled to network nodes" (col. 4, lines 18-26), "the method comprising:

5           receiving, at a second network node, a digital container transmitted by a first network node using only destination information corresponding to the digital container (figure 5, element 51 is a switch which, as seen from figure 5, uses the AAL-2 header as routing information for the data that is sent to the node), the digital container including a header section and a payload section, wherein the payload section is capable of  
10       carrying a plurality of separate transmissions formatted according to one or more protocols" (figure 4, shows the payload section of the ATM cell that includes transmissions (ATM mini cells) from one or more user nodes);

          routing the separate transmissions carried in the payload section of the digital container to one or more user nodes serviced by the second network node (figure 5  
15       where the flow has been transmitted from one end (the first node) to the other end (the second node) and where a description of figure 5 can be read in col. 6, lines 41-50 where at the first node, a plurality of users or transmissions are multiplexed into the flow and thus at the end or second node they will be demultiplexed and routed to their appropriate destinations), wherein the payload section of the digital container includes  
20       transmissions for only the one or more user nodes serviced by the second network node" (figure 4, shows the payload section of the ATM cell that includes transmissions (ATM mini cells) from one or more user nodes).

However, Stacey lacks what Easki discloses, that is "processing the digital container at the second network node" (col. 2, lines 26-35 where the term "nodes" says there is more than one and therefore the digital container must be received and processed by a second network node).

5           It would have been obvious to one with ordinary skill in the art at the time of invention to include the processing of the digital container at a second network node for the purpose of routing the digital container onto the final node in the destination. The motivation is that by routing the digital container to the second node the larger amount of multiplexed data than each individual transmission has been transmitted effectively  
10       and efficiently across the network (Stacey, col. 3, lines 58-61).

Claims 9, 12, and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stacey et al. and Easki et al. as applied to claim 1 above, and further in view of Ghaibeh et al. (U.S. Patent 5,926,478).

15

          In regard to claim 9, Stacey and Easki disclose the method according to claim 1. However, Stacey and Easki lack what Ghaibeh discloses, that is "the header section includes an optical logical channel identification (OLCI) field for identifying the destination of the digital container" (figure 2, element 80 and figure 4, element 80, 82,  
20       and 84, although Ghaibeh does not explicitly describe an OCLI field that defines a destination of a digital container as described in claim 1, Ghaibeh does disclose the functional equivalent of an OCLI field for an ATM cell, i.e. the VPI/VCI field; Ghaibeh

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uses the VPI/VCI field as a destination identifier field in an ATM cell that directs the cell to the destination regardless of what's in the payload). It would have been obvious to one with ordinary skill in the art at the time of invention to include the OCLI with the method of claim 1 for the purpose of identifying where the payload is destined (Ghaibeh, 5 col. 5, lines 37-40). The motivation for this being that by identifying the appropriate destination for the payload, the contents of the payload can then be routed to their appropriate destinations, thus completing the transmission process.

In regard to claim 12, Stacey, Easki, and Ghaibeh disclose the method according to claim 9. However, Stacey and Easki lack what Ghaibeh further discloses, that is "the OCLI field comprises a network node destination address and one or more user node destination addresses, wherein the network node destination address corresponds to the second network node and wherein the one or more user node destination addresses correspond to one or more user nodes serviced by the second network node" (although 15 Ghaibeh does not explicitly state the VPI or VCI are the network or user node addresses, they are taken to be the functional equivalents of the network and user node addresses. The VPI and VCI disclose the destination and circuit path. In order to reach the destination, the addresses of the network node and the final user node must be known or determined through the addressing of the ATM cell, i.e. the VPI represents the 20 network node address and the VCI represents the user node address). It would have been obvious to one with ordinary skill in the art at the time of invention to include the

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two addresses with the method of claim 9 for the same reasons and motivation as in claim 9.

In regard to claim 13, Stacey, Easki, and Ghaibeh disclose the method according  
5 to claim 9. However, Stacey and Easki lack what Ghaibeh further disclose, that is "the  
step of routing the digital container comprises routing the digital container based on the  
destination identified in the OCLI field (figure 4, element 84 where the VPI/VCI values  
are used to route the data to its intended destination as described in parent claims 9  
and 12 and as is known in the art)." It would have been obvious to one with ordinary skill  
10 in the art at the time of invention to include the routing based on the OCLI field with the  
method of claim 9 for the same reasons and motivation as in claim 9.

Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Easki et  
al. in view of Stacey et al. and further in view of Sathe et al. (U.S. Patent 5,617,417).

15 In regard to claim 16, Easki discloses "a method of transporting information in  
a... communication network having interconnected network nodes and one or more user  
nodes coupled to network nodes" (figure 1 shows network nodes (30, 34, 32), user  
nodes (12, 14, 16, 18, 20, 22, 24)), "the method comprising:

a) establishing a communications connection between a first and second network  
20 node by

1) forming a first digital container at a first network node, the first digital container  
including signaling information for establishing a route between the first and second



network nodes (col. 3, lines 3-13 where it is reasonable to assume that the signaling channel of Easki will employ the digital container creation for signaling messages as is typical in an ATM system)

2) routing the first digital container through the communication network (col. 3, lines 3-13 where it is implied that data, including signaling data, will be routed or switched through the network)

3) receiving and processing the first digital container at the second network node to thereby establish the communication connection" (col. 3, lines 3-13 where it is implied that the "connection-setting procedure" is used to connect two nodes, and as such the second node of the connection must process the signaling container so as to learn the connection requirements and standards, thus allowing the node to establish communication with the first node);

"b) establishing a signaling connection between a first and second user node, the first user node being coupled to the first network node and the second user node being coupled to the second network node (col. 3, lines 3-13 where the "metasignaling channel" is a signaling connection between two nodes and although two user nodes are not explicitly disclosed, it is assumed that there must be two user nodes communicating through the network, using the channels setup to service their communications)...

3) receiving and processing the second digital container at the second network node (col. 2, lines 26-35 where the term "nodes" says there is more than one and therefore the digital container must be received and processed by a second network node); 4) routing the one or more...messages carried in the payload section of the

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second digital container to the second user node serviced by the second network node, such that signaling is established between the first and second user nodes (col. 3, lines 3-13 where it is implied that data, including signaling data, will be routed or switched through the network to a second user node that is the intended recipient of the

5 communication)."

However, Easki lacks what Stacey discloses, that is "1) forming a second digital container at a first network node, the digital container including a head section and a payload section (figure 4 and the description of figure 4 in col. 5, lines 64-col. 6, lines 1-4 where although it is not explicitly mentioned that a "second digital container" is

10 formed, the general process of forming a generic digital container is disclosed, which includes the forming of a second digital container with a header and payload)..."

2) routing the second digital container through the communication network based only on destination information contained within the header section of the second digital container (figure 5, element 51 is a switch which, as seen from figure 5, uses the AAL-2

15 header as routing information for the data that is sent to the node)..."

However, Easki and Stacey further lack what Sathe discloses, that is for the second digital container "the payload section comprises one or more signaling messages supplied by the first user node (figure 6 represents a control message being constructed of a plurality of control fields from a plurality of different cells, each from a

20 different node/user, each control field is a functional equivalent of a signaling message because of its capacity of submitting control instructions, which tell the nodes to perform

certain actions related to the function of the communication, to the appropriate nodes)...”

It would have been obvious to one with ordinary skill in the art at the time of invention to include the forming of the second digital container which, includes signaling messages in the payload section for the purpose of informing nodes of important changes to the network (Sathe, col. 8, lines 3-7). The motivation for this being that updating any changes to the network allows each node to be aware of links that are capable of transmission and those that are not.

10

### ***Response to Arguments***

Applicant's arguments with respect to claims 1-6 and 10-19 have been considered but are moot in view of the new ground(s) of rejection.

15

Applicant's arguments filed 5 April 2004 have been fully considered but they are not persuasive.

20

Applicant argues for claim 9 that Ghaibeh does not disclose an OCLI in the context of applicant's invention, i.e. the OCLI is not a destination identifier of a digital container having a payload comprising a plurality of separate transmissions (applicant's remarks, page 10, paragraph 4). Examiner respectfully disagrees. Although Ghaibeh does not explicitly describe an OCLI field that defines a destination of a digital container as described in claim 1, Ghaibeh does disclose the functional equivalent of an OCLI field for an ATM cell, i.e. that VPI/VCI field. Ghaibeh uses the VPI/VCI field as a

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destination identifier field in an ATM cell that directs the cell to the destination regardless of what's in the payload. It should be noted that the payload as claimed by applicant was described in Stacey, not Ghaibeh. Therefore, the references used in claim 1 in combination with Ghaibeh form the basis for the 35 U.S.C. 103 rejection of claim 9.

Applicant further argues that for claim 12, Ghaibeh does not disclose a network node address or a user node address. Examiner respectfully disagrees. Again, Ghaibeh is used to show that a generic ATM cell has these addresses to identify where the cell is to be routed during transmission. Although Ghaibeh does not explicitly state the VPI or VCI is the network or user node addresses, they are taken to be the functional equivalents of the network and user node addresses. The VPI and VCI disclose the destination path. In order to reach the destination the addresses of the network node and final user node must be known or determined through the addressing of the ATM cell, i.e. through the VPI and VCI addresses. Therefore, the VPI and VCI addresses of Ghaibeh sufficiently read on applicant's claimed invention in claim 12.

### ***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joshua Kading whose telephone number is (703) 305-0342. The examiner can normally be reached on M-F: 8:30AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas Olms can be reached on (703) 305-4703. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Joshua Kading  
Examiner  
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**KENNETH VANDERPUYE**  
**PRIMARY EXAMINER**